BEST AVAILABLE CO.

In the Claims:

Please amend claims 1,4, 9, 13, 16, and 20; cancel claims 15 and 18; and add new claims 21-22, all as shown below.

All pending claims are reproduced below, including those that remain unchanged.

1. (Presently Amended) A light source comprising:

a waveguide with a phosphor film region, the waveguide having a waveguide direction along a long longitudinal dimension and an exit region at an end of the longitudinal dimension; and

an excitation source that directs excitation energy at the light waveguide other than in a the waveguide direction such that light is generated in the phosphor film in a waveguide direction and/or parallel to a the waveguide direction and exits through the exit region.

2. The light source of claim 1 wherein said waveguide is comprised of a spiral.

3. The light source of claim 1 wherein the waveguide is comprised of multiple spirals configured about the same center.

4. (Presently Amended) The light source of claim 1 wherein said waveguide has a small cross-section in relationship to compared a large longitudinal dimension.

5. The light source of claim 1 wherein said excitation source is an electron beam.

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- 6. The light source of claim 1 wherein said excitation source is light.
- 7. The light source of claim 1 wherein said excitation source is an alternating electric field.
- 8. The light source of claim 1 wherein said waveguide is constructed to control the spontaneous emission rate of the phosphor in the phosphor region.
- 9. (Presently Amended) The light source of claim 1 wherein the one of the dimensions of the waveguide is on the order of a wave length wavelength of light.

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- 10. The light source of claim 1 wherein mirrors are placed on one or more sides of the waveguide.
- 11. The light source of claim 10 wherein said mirrors are comprised of aluminum.
- 12. The light source of claim 10 wherein said mirrors are comprised of alternating layers of materials with different indicies of refraction.
- 13. (Presently Amended) The light source of claim 1 including another waveguide associated with the waveguide with the phosphor layer film.
- 14. The light source of claim 1 including a multiplicity of waveguides, each forming a pixel at the exit region.

15. Cancelled.

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16. (Presently amended) A light source comprising:

a phosphor film which has a long dimension and a small cross-section, the phosphor film having at least one waveguide mode in the long dimension; and

an excitation source that directs excitation energy at the phosphor film other than in the direction of the long dimension a waveguide direction such that light is generated in a waveguide mode direction and/or parallel to a waveguide direction in the long dimension and exits an exit region at the end of the long dimension.

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- 17. The light source of claim 1 including at least one of a light on ramp and a light off ramp associated with the waveguide.
- 18. Cancelled.
- 19. The light source of claim 16 including at least one of a light on ramp and a light off ramp associated with the phosphor film
- 20. (Presently Amended) The light source of claim 15 16 wherein the waveguide is comprised of a spiral.
- 21. (Newly Presented) A light source comprising:

a waveguide substrate having two dimensions on the order of a wavelength of light and a third dimension sufficiently long to produce a surface area on the order of many square centimeters; and

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a phosphor film disposed on the waveguide substrate and having a waveguide direction parallel to the third dimension, the phosphor film having a guided mode such that excitation energy received by the phosphor film generates light in the phosphor film that travels in the phosphor film in the waveguide direction and exits through an exit region along the waveguide direction.

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22. (Newly Presented) The light source of claim 21 including at least one of a light on ramp and a light off ramp associated with the phosphor film.